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EX 61 P

FURNELL PROJECTS IN HOME ECONOMICS

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1929-1930<sup>1/</sup>

NOV 16 1929

EXPERIMENT STATION FILE

Station	Title of project and date of approval	Project leaders <sup>2/</sup>	Cooperation <sup>3/</sup>	Financial support	
				Purnell <sup>4/</sup>	State <sup>5/</sup>
Ala.				\$4,700 <sup>6/</sup>	
Ariz.	The vitamin A, B, and C content of several vari- eties of Arizona dates. 6/23/28	M. C. Smith	N.C.P. 3	1,750	
"	The value of the Ariz- ona sorghums--Hegari and yellow milo--compared with with yellow corn as sources of vitamin A. 6/23/28	M. C. Smith & M. L. Lynett		2,075	
"	Effect of sunlight in the curing process upon the vitamin A content of alfalfa hay. 6/23/28	M. C. Smith & I. A. Briggs	Agronomy	1,750	

<sup>1/</sup> This includes all active Purnell Home Economics projects approved by the Office of Experiment Stations through November 1, 1929. Completed projects or projects no longer receiving Purnell support are not included.

<sup>2/</sup> This list includes in some instances advisors and cooperators in addition to the research leaders and assistants.

<sup>3/</sup> Cooperation with other departments within the station is designated by the name of the department and participation in the national cooperative projects as follows:  
N. C. P. 3--The vitamin content of food in relation to human nutrition.  
N. C. P. 4--Rural home management studies:  
I. Food consumption and expenditures of farm families.  
II. Present use of time by farm home makers.  
III. Efficiency studies of the household plant.  
IV. Standards of living and expenditures of farm families.  
N. C. P. 6--Factors which influence the quality and palatability of meat

<sup>4/</sup> In cooperative projects between the Home Economics and other departments only the funds allotted to Home Economics are included.

<sup>5/</sup> Information incomplete.

<sup>6/</sup> Project not yet submitted.



Station	Title of project and date of approval	Project leaders	Cooperation	Financial support	
				Purnell	State
Ark.	The effect of vitamin B deficiency on the carbohydrate and nitrogen metabolism of nursing young. 5/23/28	B. Sure & M. E. Smith	Agr. Chem.	2,400	
"				1,600 <u>1/</u>	200
Calif.	The effect of method of drying on vitamin content of fruits. Subproject.--The content of vitamins A, B, C, and D in peaches and prunes fresh, sun dried, sun dried and sulfured, evaporated, evaporated and sulfured. 10/13/27	A. F. Morgan	N.C.P. 3	1,600	500
Colo.	Baking of flour mixtures at high altitudes. Part II. Physico-chemical factors. 10/4/26	I. M. K. Allison & F. N. Schott		4,300	500
Conn. (Storrs)	Factors that determine standards of living in farm homes. Subproject.--Factors and conditions affecting the amount and use of family income and expenditures among a selected group of families in the Eastern Highland. 6/24/27	E. V. W. Clapp	N.C.P. 4, IV	4,300	

1/ Project not yet submitted.



Station	Title of project and date of approval	Project leaders	Cooperation	Financial support	
				Turnell	State
Fla.	Determination of whether chlorophyll, chlorophyll alpha and beta, and the petroleum-ether extracts of the yellow pigments of alfalfa can be used as a source of vitamin A in animal nutrition. 1/25/26 Revised 5/5/27	O.D. Abbott	N.C.P. 3	3,300	200
"	Determination and identification of the organisms which cause spoilage of canned vegetables in the South. 2/17/26	O.D. Abbott		1,400	100
	A study of some of the constituents of citrus fruits, roselle and guava; pectins, oils, and glucosides. 2/17/26 Revised 7/2/29	L.W. Gaddum		4,500	100
"	The relation of growth to phosphorus, calcium, and lipin metabolism as influenced by the thymus. 5/6/29	C.F. Ahmann		4,300	100
Ga.	Vitamin content of widely used Georgia foods. 7/3/25	C. Newton	N.C.P. 3	4,020	
"	The utilization of iron in turnip greens and spinach by children. 3/8/29	L. Ascham		1,985	







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				Purnell	State
Ga.	A study of the growth of preschool children in an institution of Georgia 3/8/29	L. Ascham		900	
"	Standard of living study <u>1</u> /			2,735	
Idaho	A study of the methods of vegetable storage now in use. 11/26/27	E. Woods		314	
"	A study of the condi- tions determining suc- cessful storage of po- tatoes, carrots, cauli- flower, and cabbage. 11/26/27	E. Woods & C.C. Vincent	Horticulture	314	
"	The effect of storage upon the vitamin C con- tent of the Russet Bur- bank potatoes of Idaho. 11/26/27	E. Woods	N.C.P. 3	3,898	
Ill.	The vitamin B (F or B <sub>1</sub> ) of rice. 12/19/25 Revised 10/26/29	R. A. Hetler & C.R. Meyer	N.C.P. 3	700	
"	The vitamin B (F or B <sub>1</sub> ) and the vitamin G (B <sub>2</sub> or P-I) of corn. 12/19/25 Revised 10/26/29	R.A. Hetler & C.R. Meyer	N.C.P. 3	1,200	
"	Whole corn and some of its milling products as a source of the vitamin B and G requirements of lactation. 12/19/25 Revised 10/26/29	R.A. Hetler & M. Plant	N.C.P. 3	500	

1/ Project not yet submitted.



Station	Title of project and date of approval	Project leaders	Cooperation	Financial support	
				Purnell	State
Ill.	Vitamin B (F or B <sub>1</sub> ) and vitamin G (B <sub>2</sub> or P-P) in the oat kernel and its milling products. 12/19/25	R.A. Hetler & C. R. Meyer	N.C.P. 3	2,200	
"	Revised 10/26/29 The vitamin B (F or B <sub>1</sub> ) and the vitamin G (B <sub>2</sub> or P-P) require- ments for lactation. 10/26/29	R.A. Hetler, C.R. Meyer & D. Husseman		1,017	
"	A study of wheat flours milled in Illinois in relation to their use in baking. 1/3/27	A.M.Schreiber		1,750	
"	Home accounts for the family on the farm and in the small town. 4/7/28	M.A. Souder & K.B. Freeman		1,350	
Ind.	A study of ovens used for domestic cooking purposes. 6/20/29	M. Rapp	N.C.P. 4,III	6,000	
Iowa <u>1</u> /	The application of electricity in the farm home. a. Cooking with electricity. b.Economic application of electric refrigeration in the farm home. c.Design and construction of electric dishwasher. d. Cost and utilization investiga- tion of electrical household equipment. 10/3/25	H. A. Sayre	N.C.P. 4,III Agr. Engin- eering	2,000	
"	Nutrition studies with meats. 3/1/26 Subproject.--Some diet- ary factors affecting lactation in albino rat.	P. M. Nelson & L.G. Peet		1,525	



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				Federal	State
Iowa	The vitamin content of vegetables as affected by storage. 3/1/26 Subproject.--The effect of storage on the vitamin A content of carrots	P.M. Nelson M.C. House & E. S. Haber	N.C.P. 3 & Vegetable Crops.	750	
"	A study of the influence of age on the quality and palatability of beef (cooking of beef for quality and palatability tests). 5/1/26	P.M. Nelson M.D. Helser & B. Lowe	N.C.P. 6 Animal Husbandry	50	
"	Studies of consumption habits of Iowa farm families. 3/22/26	E. E. Hoyt	N.C.P. 4, IV	2,125	
Kans.	Utilization of calcium and phosphorus from fresh, dried, and evaporated milk. 7/3/25	M. Kramer & M. Potter		1,200	
"	The vitamin content of foods in relation to human nutrition: 1. Factors affecting seasonal variation in the growth curve of children. 2. Vitamin content of cabbage, sauerkraut, relishes, celery cabbage, cherries, pears, peaches, rhubarb, and string beans. 7/3/25	M. Kramer, M. Chaney & M. Potter	N.C.P. 3	1,766	
"	Influence of feed on cooking quality of meat of grass fed cattle (tenderness and color of cooked beef from grass fed steers and similar animals). 5/29/26	M. Kramer	N.C.P. 6 Animal Husbandry	900	





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				Purnell	State
Kans.	Protective value of certain clothing fabrics against (1) heat and cold and (2) against sunburn. 7/3/25 (3) Against heat loss when air is in motion.	M. Justin, K. Hess, & E. Bruner	Physics.	3,166	
Ky.	The metabolism of obesity. 10/20/25	S. Erikson		200	
"	A study of the cause for variation in the cooking quality of white potatoes. 11/5/26	S. Erikson		400	
"	Studies of the anti- rachitic potency of the sun's rays at the lati- tude of Kentucky, in- cluding antirachitic po- tency of eggs, as affect- ed by exposure of hens to sunlight and ultra- violet light at differ- ent seasons of year, comparative antirachitic value of brown shell and white shell eggs, ef- fect of storage on anti- rachitic value and on beating and baking quality of whites of eggs. 7/1/27	J. H. Martin, S.E. Eriksen, & W. M. Insko	Poultry Hus- bandry N.C.P. 3	2,800	
"	Use of time by rural homemakers for house- hold tasks from stand- point of equipment used and method employed and relationship of income and total expenditure to expenditure for house- hold equipment. 7/22/29	S. Erikson, W.D. Nicholls & V. Meacham	N.C.P. 4, II & IV.	2,100	





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				Purnell	State
La.	The antirachitic effect of acidophilus milk. 11/19/28	G.Sunderlin	N.C.P. 3	3,780	
Maine	The iron content of edible wild greens of Maine. 5/13/27	P.S. Greene & G.M.Redfield		1,260	
"	The economic utilization of electricity in food preparation in Maine rural homes. 1. The selection of electrical cooking equipment and utensils as related to the cooking needs of Maine rural families, to first cost, and to current consumption. 2. To discover the changes and adaptations of typical cooking habits and processes necessary to prepare typical menus with economic consumption of current. 6/5/28	P.S. Greene & G.M.Redfield	N.C.P. 4, III	2,855	
"	The causes of variation in cooking quality of potatoes: (1) Measurement of culinary properties of the potato, (2) the relation of storage temperatures of potatoes to color in potato chips, (3) effect of disease on the culinary properties of potatoes. 8/13/29	M.D. Sweetman		2,235	



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				Purnell	State
Md.	Factors affecting food consumption habits of farming people in Maryland. 5/25/29	M. Coffin, M. Mount, & V. Kellar	N.C.P.4, I	4,000	
Mass.	Present practices of Mass. elementary rural schools with regard to school feeding and transportation and their effects upon health of pupils. 10/14/27	E. S. Davies & C. B. Church		1,190	
"	The comparative values of milk and tomato as supplementary feeding in a rural elementary school. 8/23/29	E.S. Davies & C.B. Church		5,960	
Mich.	The vitamin content of some commercially canned vegetables and fruits. 10/9/25	M. Dye	N.C.P. 3	3,000	
"	The vitamin A and D content of certain blanched and unblanched vegetables. 6/25/26 Subproject.--The effect of cooking on the vitamin A content of green and blanched asparagus.	M. Dye & J. W. Crist	N.C.P. 3 Horticulture	1,000	
"	The effect of the anti-rachitic factor and ultra-violet irradiation on the calcium metabolism of women. 6/25/26 The effect of variations in the nutrition of leaf lettuce on its vitamin A content. 10/12/27	M. Dye  J. W. Crist & M. Dye	  N.C.P. 3 Horticulture	1,000  2,250	



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				Purnell	State
Mich.	Determination of the food requirements of children. (1) A quantitative study of the food intake of normal pre-school children. (2) The protein requirements of the preschool child. (3) The mineral requirements of the preschool child. 11/1/28	M. Dye		3,700	
Minn.	The relation of diet to blood regeneration. Subproject 1. The influence of vitamins on the rate of blood regeneration. 8/7/25	J. M. Leichsenring & A. Biester		1,900	
	Subproject 2. The distribution of nitrogenous constituents of the blood during blood regeneration. 3/1/28			1,900	
"	A study of methods of cooking pork products. 11/9/25	A. Child	N.C.P. 6 Animal Husbandry	750	
"	A study of bound and free water in meat. 10/4/28	A. Child R.A. Gortner W. Robinson A. Zelleny	Biochemistry Entomology Physics	1,000	
"	Factors affecting the selection, care, and wearing qualities of textile materials. Subproject. 1. A study of fiber quality and physical qualities in relation to cost of staple wool materials. (Wool serges and gabardines.) 3/1/28	E. L. Phelps		950	









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				Purnell	State
Mo.	A study of effect of temperature and time of cooking on quality and palatability of meat. 6/10/26	J.A. Cline & H. E. Fry	N.C.P. 6	1,600	
"	Influence of methods of handling foods on their vitamin content, and the relation of food to the vitamin de- ficiency diseases. 7/1/26 Revised 7/29/29 A. Vitamin content of Bloomsdale spinach. B. Vitamin A and D con- tent of January and June eggs from different breeds. C. Effect of fruit acids on rickets.	M. Hessler & S. Cover	N.C.P. 3	2,550	
	Durability of cotton fabrics. I. A study of the dura- bility of white and colored cotton fabrics as affected by wear and by home and commercial laundering. II. A study of the re- liability of consumer's judgment as to the dura- bility of cotton fabrics. 7/29/29	A. Eppel		1,000	
Mont.	Food preservation. 1. Vegetables (potatoes, carrots.) 9/6/25	J.E. Richardson & E. Jacobs		960	



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				Purnell	State
Mont.	The vitamin content of vegetables in winter storage. 7/30/26 (Vitamins B. and C in potatoes and carrots).	J.E. Richardson & E. Jacobs	N.C.P. 3	2,610	
"	Effect of feeds on grade and quality of lamb. 1/25/27 Subproject.--Influence of barley and oats on the quality and palata- bility of lamb.	J.E. Richardson	N.C.P. 6  Animal Hus- bandry	435	
"	Effect of feeds on grade, quality and pala- tability of beef from yearling steers. 1/25/27 Subproject.--To deter- mine the quality and palatability of beef from steers fed wheat and alfalfa hay, and barley and alfalfa hay.	J.E. Richardson	N.C.P. 6  Animal Hus- bandry	435	
"	A qualitative and quantitative study of farm homes in Montana. 7/21/27	J.E. Richardson	N.C.P. 4, IV	3,260	
Nebr.	Routine and seasonal work of the housekeeper. 2/11/26	M.R. Clark	N.C.P. 4, II	500	
"	Kerosene cooking stoves. 2/11/26	M.R. Clark & E.B. Snyder	N.C.P. 4, III	3,400	
"	Cash contribution of farm homemakers to the family income. 2/14/29	M.R. Clark	N.C.P. 4, IV	3,100	
"	Washing machine study. 1/29/29	M.R. Clark, E.B. Snyder & M.P. Brunig	N.C.P. 4, III Agricultural Engineering	1,500	





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				Purnell	State
N. H.	Studies in human nutrition. Caloric values of foods. 5/21/26	A. G. Farr	Nutrition Lab Carnegie Institution	2,350	
N. Mex.	A study of losses incurred in cooking and the factors affecting the palatability of the New Mexico pinto beans; with a later similar study of the Bayo and other varieties of beans. 11/19/28	M.L.Greenwood		5,054	
N. Y. (Cornell)	The vitamin A and vitamin D content of egg yolk and the effect of the food of the hen and other conditions on these factors. 11/11/25 Revised 8/1/28	A. Spohn	N.C.P. 3	2,980	1,875
"	Management analyses of households. a. Management of family finances b. Management of the family's food. c. Management of the family's clothing and of household textiles. 8/1/28	H. Canon, M. Henry & B. Blackmore	N.C.P. 4, IV	2,980	
"	Fat metabolism: A study of the rates of digestion of fats as determined by the chylomicrons of the blood. 1/4/29	E. MacArthur		3,590	
"	Cost of living of farm families. 7/25/29	H. Canon & A. Young	N.C.P. 4, IV	3,010	5,000
"	Methods of household buying. 7/25/29	H. Canon & M. Fish	N.C.P. 4, IV	2,640	





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				Purnell	State
N. C.	Factors in the home influencing the standard of living. 6/18/29	M. deH. Woodruff	N.C.P. 4, IV	3,600	
N.Dak.	Factors influencing the quality and palatability of meat. Methods of cooking meats. 8/4/25	E. Latzke & C. Leeby	N.C.P. 6	3,000	
"	Cleaning equipment. Subproject A.--Dustless mops. 5/5/28	C. Leeby	Animal Husbandry N.C.P. 4, III	2,800	
Ohio	A study of the cost of family living on Ohio farms. 8/30/26	F.R.Lanman & C.E. Lively	N.C.P. 4, IV Rural Economics	1,500	
"	Basal metabolism of women 40 to 50 years of age. 10/13/26	F.R. Lanman & H. McKay		1,000	
"	Seasonal variation in growth of preschool children in Ohio. 11/4/26	F.R.Lanman & H. McKay		1,000	
Okla.	<u>1</u> /The influence of vitamins A, B, G, C, and D upon the coefficients of utilization of fat, carbohydrate, and protein. 10/11/29	R.R.St.Julian		1,425	
	<u>1</u> / Comparison of the mineral metabolism and food intake of the underweight college woman with that of the average and overweight woman. 10/14/29	C. M. Coons		<u>2</u> / 400	
	<u>3</u> /Rural home management project.	G. Fernandes		3,900	

1/ Research conducted in Agr. Chem. Dept.

2/ Maintenance only.

3/ Project not yet approved.



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				Purnell	State
Oreg.	Use of time by farm home makers. 10/16/25	M. Wilson	N.C.P. 4, II	5,370	
R. I.	Frequency of paid work done by the rural Rhode Island homemaker and some of its effects up- on her and her home. 4/20/28	M. Whittemore & B. Neil	N.C.P. 4, IV	2,500	
"	Selection of potatoes for table use as affect- ed by (a) method of fer- tilization, (b) variety of potatoes. 5/8/28 Revised 6/3/29	M. Whittemore & B. Neil		1,000	
"	Influence of ferti- lizer treatment on the vitamin content of spinach. 5/26/28	M. Whittemore, B. Neil & J.B. Smith	N.C.P. 3  Chemistry P. State College	1,000	
"	The form and propor- tions giving satisfact- ory results in utensils used in the household for pouring. 5/6/29	M. Whittemore	N.C.P. 4, III	1,000	
S. C.	How farm families use their leisure. 10/13/26	M. Frayser & A. M. Moser		1,800	
"	A study of the dietary habits of rural child- ren from two to six years of age in their relation to health and development. 10/31/27	M. E. Frayser & A. M. Moser		1,200	
"				1/3,500	
S. Dak.	The vitamin C content of vegetables canned in the pressure cooker: Spinach and Swiss chard. 7/6/25	E. M. Pierson	N.C.P. 3	2,213	

1/ Project not yet approved.



Station	Title of project and date of approval	Project leaders	Cooperation	Financial support	
				Purnell	State
S.Dak.	Kind and quality of material in women's coats from typical retail stores in the State. 5/14/26	A. O. Halgrim		1,940	
"	A study of the present use of time by farm women. 12/16/27	G.E. Wasson & B.E. Huskins	N.C.P. 4, II	3,470	
Tenn.	Garlic odor and flavor in milk. 11/9/25	M.B. MacDonald A. Glaser		600	
"	The nature, origin, and function of bios. 11/9/25	M.B. MacDonald		2,250	
"	Bitterweed flavor in milk. 6/30/27	M.B. MacDonald & A. Glaser		2,100	
"	Physiological chemical study of the absorption of garlic flavor and odor of the milk of cows. 6/30/27	M.B. MacDonald & A. Glaser	Animal Husbandry	350	
"	Vitamin A content of mineral oil-treated and untreated milk. 7/23/29	M.B. MacDonald & M. Koehne		400	
Tex.	Adequacy of the diet of Texas school children. 10/20/27	J. Whitacre		4,900	
"	The influence of Texas sunlight on the durability and color of cotton fabrics. 1/21/28	M. Grimes		5,400	
"	Growth in height and weight of Texas school children. 6/4/28	E. Sumner & J. Whitacre		6,150	
Utah	Food habits of elementary rural school children in relation to their physical well-being. 6/24/29	A. P. Brown	N.C.P. 4, I	3,400	





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				Purnell	State
Utah	The physical curd character of milk and its relationship to the digestibility and food value of milk for infants. 6/24/29	R. L. Hill <sup>1</sup> /		1,125	
Vt.	Study of methods of household budgeting and accounting. 11/23/25	M. Muse		3,480	
"	The standard of living of Vermont farm families 3/9/29	M. Muse	N.C.P. 4, IV	3,470	
Va.	The cooking quality and palatability of soft pork. 6/4/29	I. M. Bailey	N.C.P. 6, Animal Husbandry	2,800	
"	Rural family living <sup>2</sup> /			5,000	
Wash.	Standards of cooking vegetables in the electric oven. 10/24/28	C. Landreth & H. L. Carver	F.C.P. 4, III Agr. Eng.	3,200	
"	Efficiency of home laundry plant. 10/24/28	F. Harrison & E. Roberts	N.C.P. 4, III Agr. Eng.	3,400	
W. Va.	Methods for the economic utilization of surplus food products, with special reference to the problems of the home. 7/22/25 (a) Standardization of cherry preserves. (b) Standardization of Mountain State blackberry jam and jelly.	H.C. Cameron	Horticulture & Extension	2,400	500

<sup>1</sup>/ Department Human Nutrition.

<sup>2</sup>/ Project not yet submitted.



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				Purnell	State
W. Va.	A study of the relation of lipoids, particularly cholesterol, to the incidence of respiratory and middle-ear infections occurring on vitamin A-deficient diets. 1/28/29	H.C. Cameron		2,900	
Wis.	The metabolism of protein, particularly as influenced by pregnancy and lactation. 11/27/29	H. Parsons & I. Stevenson		3,150	1,600
"	A study of the farmers' standard of living: Content, adequacy, and conditioning factors. 10/18/29	J. H. Kolb, E.L.Kirkpatrick, P.E.McNall & M.L. Cowles	N.C.P. 4, IV Agr. Econ.	1,250	500
Wyo.	Baking qualities and methods of baking Wyoming flour. 1/25/25	E.J.McKittrick		4,480	175

